HEV Genome

Figure 1

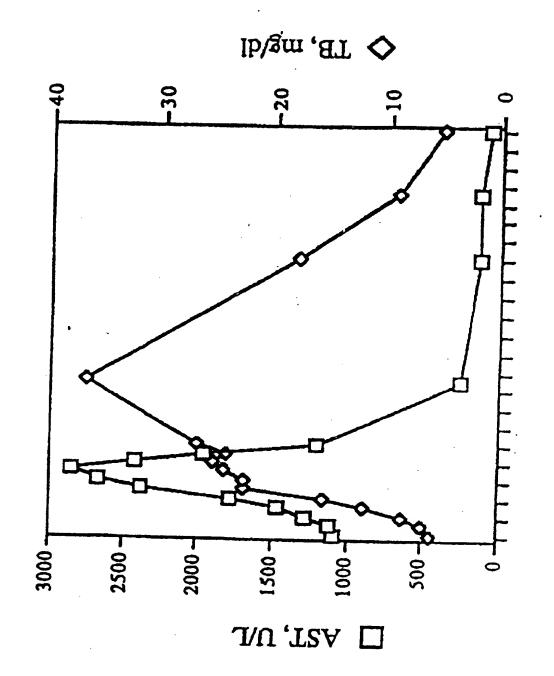
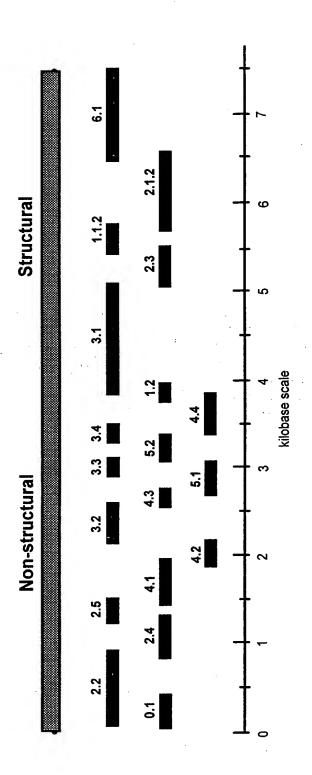


Figure 2

Figure 3

HEV US-1 Genome Extension



Extension of HEV US-2

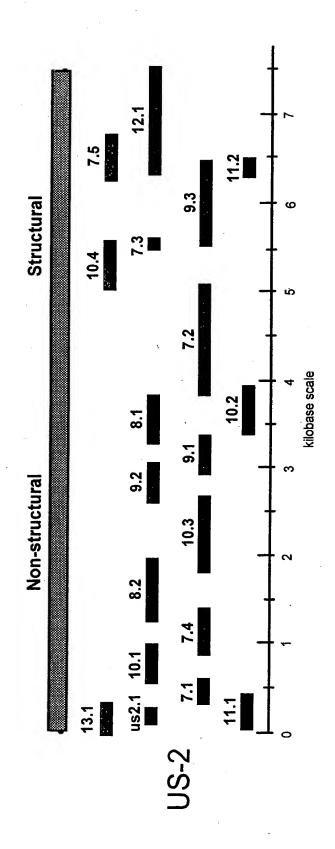


Figure 4

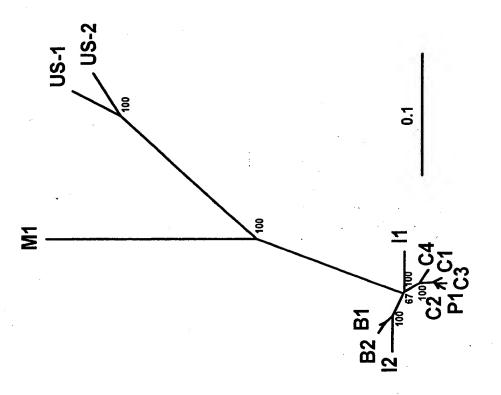
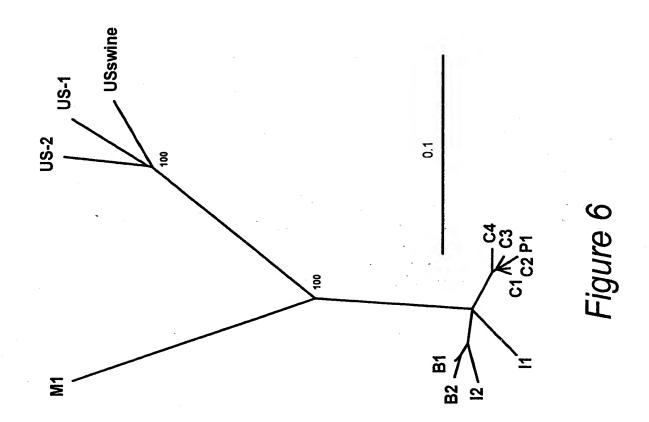
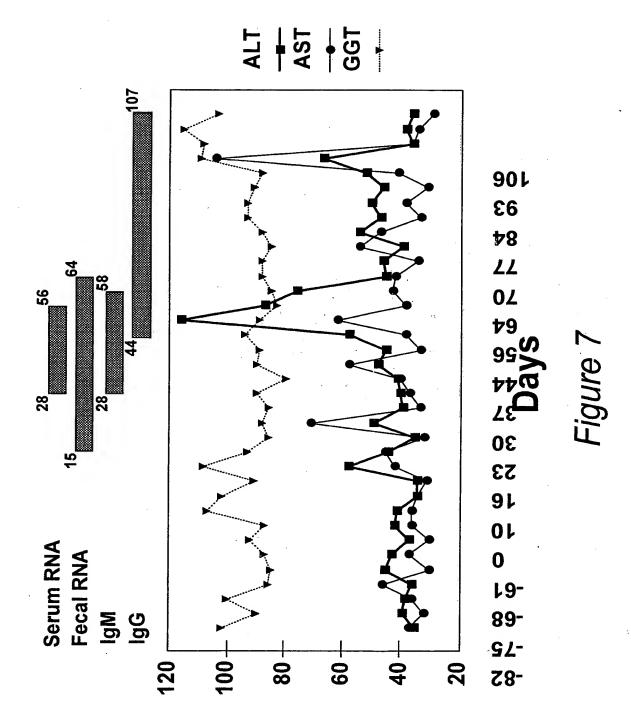


Figure 5





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Extension of Z12

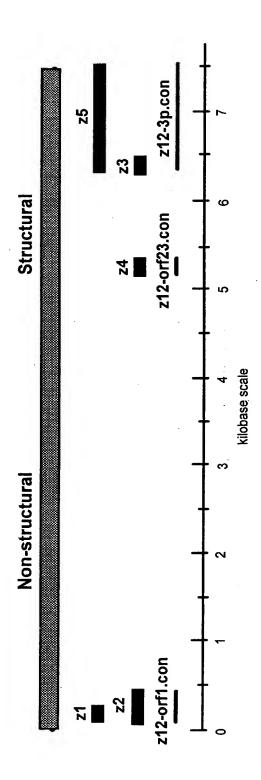


Figure 8

FIGURE 9A

100	GCAGCGGCCA	GCAGCGGCCA	GCAGCGGCCA	GCTGCGGCCA	GCAGCGGCCA	GC-GCGGCCA	150	CTCTCACCAG	CTCTCACCAG	CTCTCACCAG	ATCTCGCGTG	TTCCCATCAG	-TC-CG	000	TTGTTTTCCG	TTGTTTTCCG	TTGTTTTCCG	TGGTTTTCCG	TGGTGTTTCG	T-GT-TT-CG
	GGCTGCTCTA	GGCTGCTCTA	GGCTGCTCTA	GGCTGCTCTG	AGCAGCTCTA	-GC-GCTCT-		GGCCTTTTCT	GGCCTTTTCT	GGCCTTTTCT	GGCCGTTTTT	GGCCTTTCCT	GGCC-TTT		CCTCGCCAGC	CCTCGCCAGC	CCTCGCCAGC	CCCCGGCAGT	CCTCGGCAGC	CC-CG-CAG-
	ATCACTACTG CTATTGAGCA	CTATTGAGCA	CTATTGAGCA	CCATTGAGCA	CTATTGAGCA	C-ATTICACOA		GTGGTAGTTA	GTGGTAGTTA	GTGGTAGTTA	GTGGTGGTTC	GIGGIGGICC	-GCGAATGCT GDGGT-GT		CCTAATGCAA	CCTAATGCAA	CCTAATGCAA	TTTGATGCAA	TCTCATGCAA	T-ATGCAA
	ATCACTACTG	ATCACTACTG	ATCACTACTG	ATTACTACTG	ATCACTACTG	Conggo at-actricis c-attreasor		GGCGAATGCT	TGCGAATGCT	TGCGAATGCT	GGCGAATGCT	TGCGAATGCT			TCCTCATTAA	TCCTTATTAA	TCCTTATTAA	TTCTTATTAA	TCCTTATAAA	T-CT-AT-AA
51	GGCTCCTGGC	GGCTCCTGGC	GGCTCCTGGC	~~~~CCTGGC	GGCTCCTGGC	Congec	101	ACTCTGCCCT	ATTCTGCCCT	ACTCTGCCCT	ATTCTGCCTT	ACTCCGCCCT	A-TC-GOC-T	151	CAGATTGAGA	CAGATTGAGA	CAGATIGAGA	CAAACCGAGA	CAGGTTGAGA	CAGAGA
	5p.pile{hpesvp}	<pre>5p.pile{hpeuigh}</pre>		5p.pile{840455p}	<pre>5p.pile{hpenssp}</pre>	Consensus		<pre>5p.pile{hpesvp}</pre>	<pre>5p.pile{hpenigh}</pre>	<pre>5p.pile{hpea}</pre>	5p.pile{840455p}	<pre>5p.pile{hpenssp}</pre>	Consensus		5p.pile{hpesvp}	<pre>5p.pile{hpeuigh}</pre>	5p.pile{hpea}	5p.pile{840455p}	5p.pile{hpenssp}	Consensus

FIGURE 9E

<pre>5p.pile{hpesvp} 5p.pile{hpeuigh} 5p.pile{hpea} 5p.pile{840455p} 5p.pile{hpenssp} Consensus</pre>	201 CCCCGAGGTT CCCCGAGGTT CCCCGAGGTA TCCTGAGGTA	TTCTGGAATC TTCTGGAACC TTCTGGAATC CTTTGGAATC TTTTGGAATC	TTCTGGAATC ATCCCATCCA TTCTGGAACC ACCCCATCCA TTCTGGAACC ATCCCATCCA CTTTGGAATC ACCCTATCCA TTTTGGAATC ACCCGATTCA	GCGTGTCATC GCGTGTCATC GCGGGTTATA ACGTGTTATA	250 CATAACGAGC CATAATGAGC CATAATGAAT CATAATGAGC
<pre>5p.pile{hpesvp} 5p.pile{hpeuigh} 5p.pile{hpea} 5p.pile{840455p} 5p.pile{hpenssp} Consensus</pre>	251 TGGAGCTTTA TGGAGCTTTA TGAGCTTTA TTGAGCAGTA TTGAGCAGTA	CTGCCGCGCC CTGTCGCGCC CTGTCGCGGCT TTGCCGGGCT	CGCTCCGGCC CGCTCCGGCC CGCTCCGGCC CGCTCGGGTC	GCTGTCTTGA GCTGCCTTGA GCTGCCTCGA GTTGCTTGGA GCTGCCTTGA GCTGCCTTGA	300 AATTGGCGCC AATTGGTGCC AATTGGTGCC GGTTGGAGCT GATTGGAGCC
<pre>5p.pile{hpesvp} 5p.pile{hpeuigh} 5p.pile{hpea} 5p.pile{840455p} 5p.pile{hpenssp}</pre>	301 CATCCCGCT CACCTCGCT CACCCCGCT CACCCAAGAT CACCCACGCT	CAATAAATGA CAATAAACGA CAATAAATGA CCATTAATGA CCATTAATGA	TAATCCTAAT CAATCCTAAT CAATCCTAAT CAACCCCAAC TAATCCTAAT	GTGGTCCACC GTGGTCCACC GTGGTCCACC GTTCTGCATC GTCTCCATC	350 GCTGCTTCCT GCTGCTTCCT GTTGCTTCCT GGTGTTTCCT GCTGCTTTCT

FIGURE 9(

400	CCCACTCGCG	CCCACCCGCG	CCGACTAGGG CC-ACG-G	450	TCCCGCTGCT	CCCCGCTGCT	CCCCGCTGCT	CCCCCCCCT	GCCACCAGCC	-29-222-	500	TTCCCGCCGA	TTCCCGCCGA	TTCCCGCCGA	TIGCIGCAGA	TIGCCGCCGA	TT-C-GC-GA
	GTATACTGCT GTATACTGCT	GTATACTGCC	TTCAGCGCTG GTACACAGCC		TGCGCGGGCT	TGCGCGGGCT	TGCGCGGGCT	TGCGTGGTCT	TICGIGGICI	T-CG-GG-CT		GGCTGTAACT	GGCTGTAACT	GGCTGTAACT	CGTTGTGCTT	GGCTGCCGTT	-G-TGT
	GGGCGTGATG TTCAGCGCTG GGGCGTGATG TTCAGCGTTG	TTCAGCGTTG			CGTTCCGCGC	GGTTCCGCAC	CGTTCCGCGC	CGCTCCGCGT	CGCTCGGCAC	CLC-CC	·	CGGGTTTTCT	CGGGTTTTCT	CGGGTTTTCT	TGGATTCTCC	TGGCTTTGCC	-CG-TTC-
	GGGCGTGATG	GGCCGAGATG	GGCCGGGATG GG-CG-CATIG		TAATTGCCGG	TAATTGCCGG	TAATTGCCGG	TAATTGCCGC	GAACTGTCGC	-AA-TG-CG-		ACTGCCTCGA	ACTGCTTCGA	ACTGCTTCGA	ACTGCTTTGA	ACTGTTTTGA	SACCECACTT ACTIG==TFGA -CE-TTC-
351	CCGCCCTGTT	CCGTCCTGCC	CCACCCGTC	401	GGCCGGCTGC	CECCEECTEC	GGCCGGCTGC	GCCCTGcGGc	GACCTGCGGC	29-29-22-9	451	GACCGCACTT	GACCGCACTT	GACCGCACTT	GACCGCACTT	GACCGCACTT	GAICESCACTT
	<pre>5p.pile{hpesvp} 5p.pile{hpeuigh}</pre>	<pre>5p.pile{npea} 5p.pile{840455p}</pre>	<pre>5p.pile{hpenssp} Consensus</pre>		<pre>5p.pile{hpesvp}</pre>	<pre>5p.pile{hpeuigh}</pre>	<pre>5p.pile{hpea}</pre>	5p.pile{840455p}	<pre>5p.pile{hpenssp}</pre>	Consensus		<pre>5p.pile{hpesvp}</pre>	<pre>5p.pile{hpeuigh}</pre>	<pre>5p.pile{hpea}</pre>	5p.pile{840455p}	<pre>5p.pile{hpenssp}</pre>	Consensus

FIGURE 9

																•				(2)
1500	TTCTGTGTCG	TCCTGTGTCG	TCTTGTGTCG	TTATGCACCG	TCATACAGCG	TT	1550	CGCGACCATG	GGCGACCATG	CGCGACCATG	CGCCACCATG	CACCATG	ACCATG	1500	CTATGCTGCC	CTATCGTGCC	CTATGCTGCC	CTATGTTGCC	CTATGCTGCC	CTATTGCC
	ACAAATTCAA	ACAAATTCAA	ACAAATTCAA	ACACACTCAA	ACAAATTCCA	ACA-A-TC-A		CCCATGGGTT	CCCATGGGTT	CCCATGGGTT	CCCATGGGTT	CCCATGGGAT	-TITGCCG CCCATGGG-T		ATGTTTCTGC	ATGTTTCTGC	ATGTTTTGC	TTGTTTCTGC	ATGTTTCTGC	-TGTTT-TGC
	TGAAGCCAGT GCTTGACCTG	GCTCGACTTG	GCTCGACTTG	ACTIGACCTI	ACTTGATCTC	-CT-GAT-		TTTTGCTGCG	TTTTGCTGCG	TTTTGCTGCG	GITIGCIGCG	ataacangmo mitigoangg ooganggat	-TTTGCCG		GTIGCICCIC	GTTGCTCCTC	GCTGCTCCTC	GTTGTTCCTC	GTTGTTCCTC	G-TG-TCCTC
	TGAAGCCAGT	TGAAGCCAGT	TAAAACCAGT	TTAAGCCTAT	TTAAACCTGT	T-AA-CCT		ATAACATGTC	ATAACATGTC	ATAACATGTC	ATAACATGTG	ATAACATGTC	GGAAIIGA ATRACATIGE		CTATTTTGCT	CTATTTTGCT	CTATTTTGTT	CTCTTTTGCT	CTGTTCTGTT	CT-TT-TG-T
1451	ACTGAGTCAG	ACTGAGTCGG	ACTGAGTCAG	ACAGAGICIG	ACAGAGACTA	AC-GAG-C	1501	GGTGGAATGA	GGTGGAATGA	GGTGGAATGA	GTCTGAATGA	GGTGGAATGA	GETTERNATION	1551	CGCCCTCGGC	CGCCCICGGC	CECCCICEEC	CGCCCTAGGC	CGCCCTAGGG	CGCCCT-GG-
	<pre>3p.pile{hpea}</pre>	3p.pile{hpeuigh}	3p.pile{hpesvp}	3p.pile{hpenssp}	3p.pile{840453p}	Consensus		3p.pile{hpea}	3p.pile{hpeuigh}	3p.pile{hpesvp}	3p.pile{hpenssp}	3p.pile{840453p}	Consensus		3p.pile{hpea}	3p.pile{hpeuigh}	3p.pile{hpesvp}	3p.pile{hpenssp}	3p.pile{840453p}	Consensus

FIGURE 9E

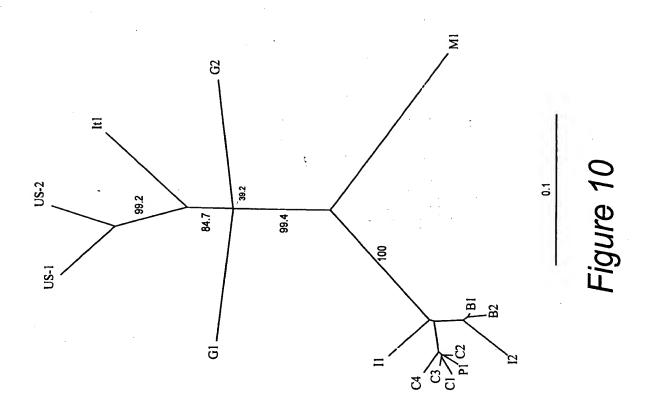
																	· • • • •	: 1 , a ·	44.	٠.
1650	CGGCGCAGCG	CGGCGCAGCG	CGGCGCAGCG	CGGCGCAGCG	CGGCGCAGCG	CGGCGCAGCG	1700	TCAGCCCTTC	TCAGCCCTTC	TCAGCCCTTC	TCAGCCCTTC	TCAGCCCTTC	GEGIIII GAILLIC II CAGOOCIII IO	1750	ATGTCACCGC	ATGTCACCGC	ATGTCACCGC	ACGTTGCCGC	ATGTCGTTTC	A-GTC
		CCGTCGTGGG	CCGTCGTGGG	CCGTCGTGGG	TCGCCGTGGG	-cg-cgrege		GGGTTGATTC	GGGTTGATTC	GGGTTGATTC	GGGTTGATTC	GGGTTGATTC	Genneam		Treececee	TTCGCCCCCG	TTCGCCCCCG	TTTGCCCCAG	TTCGCCGCCG	TI-GCC-C-G
	CCCGGTCAGC.CGTCTGGCCG	CGICIGGCCG	CGICIGGCCG	CGICIGGCCG	CGICIGGCCG	CGTCTGGCCG		TGGGGTGACC	TGGGGTGACC	TGGGGTGACC	TGGGGTGACC	TGGAGTGACA	TGG-GTGAC-	-	AACCAACCCC	AACCAACCCC	AACCAACCCC	AACCAACCCC	AACCAACCCC	SCTCCCCT ATATTEATOC AACCAACCCC TT-GCC-C-G
	CCCGGTCAGC	CCCGGTCAGC	CCCGGTCAGC	ACCGGTCAGC	GCCGGTCAGC	-ccegrcaec		CGGTGGTTTC	CGGTGGTTTC	CGGTGGTTTC	CGGTGGTTTC	CGGTGGTTTC	CGGTGGTTTC		ATATTCATCC	ATATTCATCC	ATATTCATCC	ATATTCATCC	ATATTCATCC	ATTATTOATTO
1601	CGCGCCACCG	CGCGCCACCG	CGCGCCACCG	CGCGCCACCG	CGCGCCACCG	CGCGCCACCG	1651	GCGGTTCCGG	GCGGTTCCGG	GCGGTTCCGG	GCGGTACCGG	GCGGTGCCGG	GCGGT-CCGG	1701	GCAATCCCCT	GCAATCCCCT	GCAATCCCCT	GCAATCCCCT	CCCCTCCCCT	GCTCDCCT
	3p.pile{hpea}	3p.pile{hpeuigh}	3p.pile{hpesvp}	3p.pile{hpenssp}	3p.pile{840453p}	Consensus		3p.pile{hpea}	3p.pile{hpeuigh}	3p.pile{hpesvp}	3p.pile{hpenssp}	3p.pile{840453p}	Consensus		3p.pile{hpea}	<pre>3p.pile{hpeuigh}</pre>	3p.pile{hpesvp}	<pre>3p.pile{hpenssp}</pre>	3p.pile{840453p}	Consensus

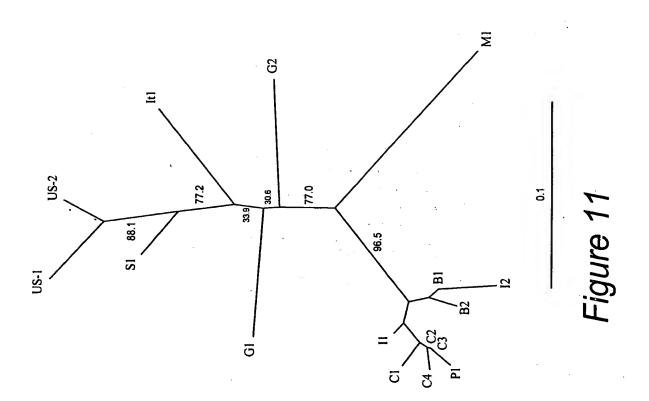
FIGURE 91

								•	χ, .*	
2700 GGTCTACCGA GGTCTACCGA GGCCTGCCGA	GGTTTACCGA GGT-CCGA 2750	TCGCCCCGTC	CCGTCCCGTT	-CCGCCCTGTT	2800	CTGTGGAGAA CTGTAGAGAA	CTGTAGAGAA	CAGTGGAGAA	CTGTtGAgAA	-T-TA-ACAT C-GT-GAGAA
CCTGCTTGGC CCTGCTTGGC TCTGCTTGGC	GCTTCTTGGT -CT-CT-GG-	TGTTCTACTC TGTTCTACTC	TGTTCTACTC TGTTTTATTC	TGTTTTACTC TGTT-TA-TC	E	CTGTATACAT	TIGIATACAT	CTCTATACAT	TTATACACAT	-T-TA-ACAT
CTGTTTAACC TTGCTGACAC CTGTTTAACC TTGCTGACAC CTGTTCAACC TTGCTGACAC TTACTTAACC TTGCTGACAC	TTGCTGATaC TTGCTGA-AC	GGTGGCCAGC	GGTGGCCAGC	CAGAATTGAT TTCGTCGGCT GGGGGTCAAC PAGAATT-AT TTGGTCGGCT GG-GG-CA-C	6 E E C	GACTGTTAAG	GACTGTTAAG	AACCGTGAAG	AAcAGTAaAG	-AC-GT-AAG
CTGTTTAACC CTGTTTAACC CTGTTCAACC TTACTTAACC	CTGTTTAATC -TT-AA-C	Trefreger	TTCGTCGCCT	TTCGTCGGCT	() () () () () ()	ATGGCGAGCC ATGGCGAGCC	ATGGCGAGCC	ATGGCGAGCC	ATGGCGAGCC	GTOTO-GROA ATGGEGAGGC
2651 AGCGCTTACC AGCGCTTACC AGCCCTCACC AGCCCTCACC	TGCCCtGACT -GC-CT-AC- 2701	CAGAATTGAT CAGAATTGAT	CAGAATTGAT CAGAATTAAT	CAGAATTGAT EAGAATT-AT	2751	GICTCAGCCA	GTCTCAGCCA	GTCTCAGCCA	GTcTCgGCCA	GIOIC-CCCA
3p.pile{hpea} 3p.pile{hpeuigh} 3p.pile{hpesvp} 3p.pile{hpenssp}	<pre>3p.pile{840453p} Consensus</pre>	3p.pile{hpea} 3p.pile{hpeuigh}	<pre></pre>	3p.pile{840453p} Consensus	ابت على 1	3p.pile{hpeuigh}	3p.pile{hpesvp}	3p.pile{hpenssp}	3p.pile{840453p}	Consensus
m m	·)	m	m	(*)		m		(ኅ) (M	

FIGURE 9G

FCAFGA-CG-	-GI-AI-CAG GAUTRAIGRAN ACCA-CA-GA -CR-GA-CG-	GATITATICA-A		A-TC-CG-GT	Consensus
acaAgaTcgA	ACTCCCGTGT GGTTAtCLAG gattATGATA ACCAGCAGGB AGAAATCGA	gattAToATa	GGTTAtccag	ACTCCCGTGT	3p.pile{840453p}
GCAGGATCGG	GGTCATICAG GATTATGACA ACCAGCATGA GCAGGATCGG	GATTATGACA	GGTCATȚCAG	ATTCGCGTGT	3p.pile{hpenssp}
ACAAGATCGG	GGTTATTCAG GATTATGATA ACCAACATGA ACAAGATCGG	GATTATGATA	GGTTATTCAG	AATCTCGTGT	<pre>3p.pile{hpesvp}</pre>
GCAGGACCGG	TGTTATTCAG GATTATGACA ACCAACATGA GCAGGACCGG	GATTATGACA	TGTTATTCAG	AATCTCGAGT	3p.pile{hpeuigh}
GCAGGACCGA	AATCCCGTGT AGTTATTCAG GATTATGACA ACCAACATGA GCAGGACCGA	GATTATGACA	AGTTATTCAG	AATCCCGTGT	3p.pile{hpea}
2900				2851	
GAT-GG-G	TC-AT-CC -CA-GA-AT-	TC-AT-CC	TGC-CAGCA- GA-AAGGG	TGC-CAGCA-	Consensus
GATTTAGGTG	TCacCaTTCC ACACGACATA GATTTAGGTG	TcacCaTTCC	TGCGCAGCAA GACAAGGGca	TGCGCAGCAA	3p.pile{840453p}
GATCTTGGTG	TIGCIAICCC CCACGAIAIC	TIGCTAICCC	TGCTCAGCAG GATAAGGGTG	TGCTCAGCAG	3p.pile{hpenssp}
GACCTCGGAG	TIGCAAICCC GCAIGACAIT GACCICGGAG	TIGCAAICCC	TGCTCAGCAG GATAAGGGTA	TGCTCAGCAG	3p.pile{hpesvp}
GACCTCGGGG	TIGCAATCCC GCATGACATC GACCTCGGGG	TTGCAATCCC	TGCTCAGCAG GATAAGGGTA	TGCTCAGCAG	3p.pile{hpeuigh}
GACCTCGGGG	Zesu TGCTCAGCAG GATAAGGGTA TTGCAATCCC GCATGACATC GACCTCGGGG	TTGCAATCCC	GATAAGGGTA	TGCTCAGCAG	3p.pile{hpea}
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MACAQUE 13906 HEV US-2 ORF 3 CKS - 29

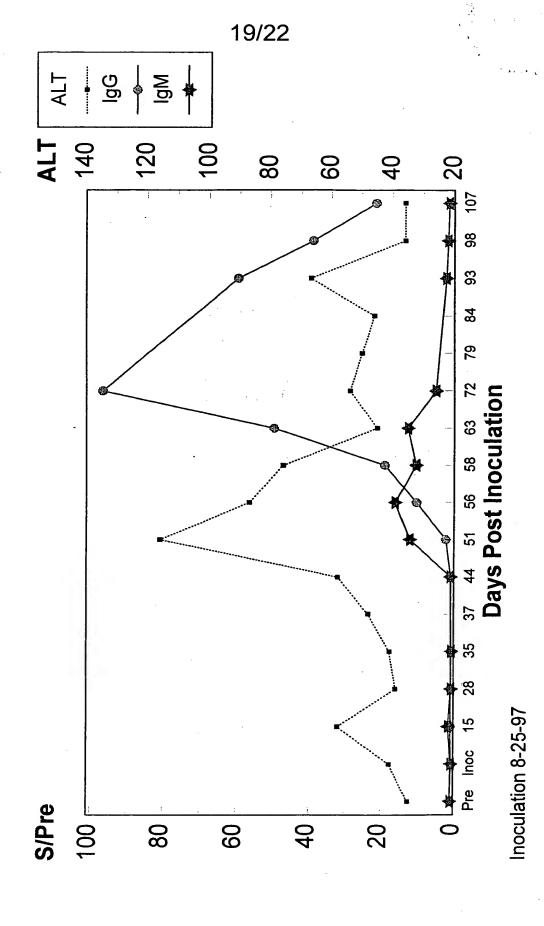


Figure 13

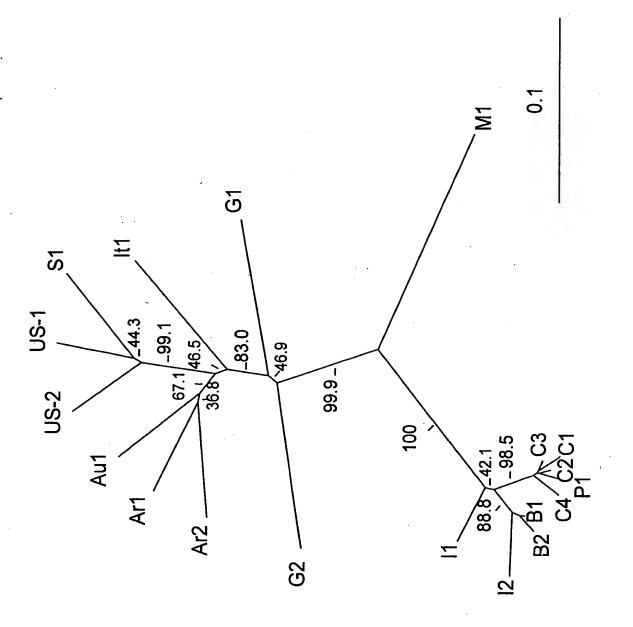


Figure 14

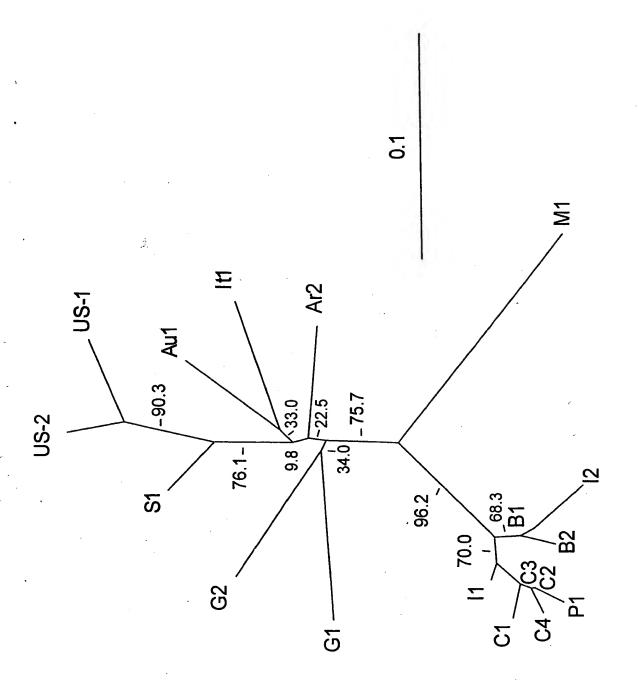


Figure 15

